

General

Name

Icom UHF Transceiver, Portable; IC-F40GS/IC-F40GT

ID# 51



IC-F40GS

IC-F40GT

Model Number(s)

Technology

Portable, conventional; trunking capable with optional accessory board

Manufacturer

ICOM America Inc.
Corporate Headquarters
2380 – 116th Ave., NE
P.O. Box C-90029
Bellevue, Washington 98009-9029

POC: Mr. Ron Spencer
425-454-8155 (Tel)
425-454-1509 (Fax)
Yes, scrambling or rolling code

Secure Communication Capability

Availability

Available

Frequency Range

400 MHz to 430 MHz, 450 MHz to 490 MHz,
480 MHz to 512 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

50+ with repeater; 12 mi line of sight

Current User(s)

Not specified

Source

ICOM

Operational Parameters

Number of Channels

256 memory channels, 12 character names, up to 16 banks

Transmitter Power Output Levels

Hi: 5 W VHF and 4 W UHF

Battery Options

AA battery case, 1100 mAh NiCad, 1650 mAh NiMH

Battery Recharging Options

DTC charger, rapid charger, 6-unit charger, and charger adapter

Physical Parameters

Size

2.4 in x 5.5 in x 1.7 in

Weight

24 oz

Power Requirements

7.2 V dc

External Power

Yes, ac and AD adapters

Available Accessories

Speaker-Microphones	Cell-phone type speaker-microphone
Carrying Cases	Yes
Battery Eliminators	No
Vehicle Adapters	Yes

Logistical Parameters

Programming	Dealer/User (authorized technician) programmable
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Rugged construction, backlit keypad, 1550 NiMH battery standard, and one-piece aluminum die-cast chassis. Meets Mil-Std requirements and strict environmental standards.
Environmental Conditions	-22 °F to 140 °F
Unit Cost	Greater than \$500 but less than \$1K per unit
Battery Cycle Life	Not specified
Rapid Charge Battery Cycle Life	Rapid desktop and multi-charger
Maintenance Cost	Not specified
Interface Capability	Data communications

Special Requirements

Operator Skills Required	Minimal
Operator Training Requirements	Minimal
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	Not specified
Support Equipment	Chargers, battery pack, speaker-microphones, ac adapter for use with charger, speaker-microphone, case, keypad, SmarTrunk II TM and Logic Board
Warranty	2 yr
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	Pending

General

Name

***Icom UHF Transceiver, Portable;
IC-F40LT Land Use;
IC-F40M/IC-F40LT Marine Version***

ID# 52



Model Number(s)

IC- F40LT (Land Use)
IC-F40M/IC-F40LTM (Marine Version)

Technology

Portable, conventional; trunking capable with optional accessory board

Manufacturer

ICOM America Inc.
Corporate Headquarters
2380 – 116th Ave., NE
P.O. Box C-90029
Bellevue, Washington 98009-9029

Secure Communication Capability

POC: Mr. Ron Spencer
425-454-8155 (Tel)
425-454-1509 (Fax)
(Land) Yes, simple inversion or rolling code.
(Marine) Yes, with optional accessory. Voice scrambler units, nonrolling type and rolling type.

Availability

Available

Frequency Range

400 MHz to 430 MHz, 430 MHz to 470 MHz,
470 MHz to 520 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

10 mi

Current User(s)

Not specified

Source

ICOM

Operational Parameters

Number of Channels

Marine: up to 83; LMR: up to 16

Transmitter Power Output Levels

Hi: 5 W; low: 1 W

Battery Options

Batteries (6 AA)
NiCad, 7.2 V/1100 mAh
NiCad battery pack for Intrinsically safe operation,
NiMH, 7.2 V/1650 mAh
Desktop charger, and multi-charger

Battery Recharging Options

Physical Parameters

Size

2.4 in x 5.5 in x 1.7 in

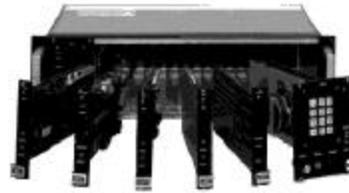
Weight	17.6 oz
Power Requirements	7.2 V dc
External Power	No
<u>Available Accessories</u>	
Speaker-Microphones	Speaker-microphone provides convenient, lightweight operation while hanging the transceiver on a belt
Carrying Cases	Yes
Battery Eliminators	No
Vehicle Adapters	No
<u>Logistical Parameters</u>	
Programming	Dealer/User (authorized technician) programmable
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Polycarbonate case over a one-piece die-cast aluminum frame and a durable screw-base antenna ensure reliability under demanding commercial operations. Meets Mil-Std requirements and strict environmental standards.
Environmental Conditions	-22 °F to 140 °F Hazardous marine environments
Unit Cost	\$585
Battery Cycle Life	Not specified
Rapid Charge Battery Cycle Life	Desktop charger for rapid charging a battery pack (charging time 2 h). Multi-charger for charging up to 6 batteries simultaneously (charging time 6 h).
Maintenance Cost	Not specified
Interface Capability	Not specified
<u>Special Requirements</u>	
Operator Skills Required	Minimal
Operator Training Requirements	Minimal
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	Not specified
Support Equipment	Chargers, battery pack, speaker-microphones, ac adapter for use with charger, speaker-microphone, belt clip, keypad, SmarTrunk II™ and Logic Board
Warranty	2 yr
Mil Spec/Mil-Std Ratings	(Land) Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E. (Marine) Meets Mil Spec 810C and Mil Spec 810D.
Intrinsically Safe	Yes

General

Name

ID# 53

Modular Interconnect System, ACU-1000



Model Number(s)

ACU-1000

Technology

Interconnect
Conventional Modular Interface/Interconnect System

Manufacturer

JPS Communications, Inc.
5720M Capital Blvd.
Raleigh, North Carolina 27616
919-790-1011 (Tel)
919-790-1456 (Fax)

e-mail: jps@jps.com
<http://www.jps.com>

Secure Communication Capability

Yes

Availability

Available

Frequency Range

Each module is designed to connect to a specific communications medium (VHF/UHF radio, telephone or Satcom, HF radio, and local operator)

Number of Personnel Supported by System

Multiple

Geographic Coverage

Not specified

Current User(s)

U.S. Army Corps of Engineers, and Federal Emergency Management Agency

Source

JPS Communications
<http://www.jps.com>

Operational Parameters

Number of Channels

Provides communications interoperability between HF, VHF low band, VHF high band, UHF, 800 MHz, trunking talk-groups and encrypted networks

Transmitter Power Output Levels

Not specified

Battery Options

Not specified

Battery Recharging Options

Built-in 1 A capacity battery charger

Physical Parameters

Size

5.3 in x 19 in x 11 in

Weight

Not specified

Power Requirements

115 V ac to 230 V ac
+12 V, +24 V dc to 28 V dc, or external battery

External Power	External and internal
<u>Available Accessories</u>	
Speaker-Microphones	Yes
Carrying Cases	Yes
Battery Eliminators	Not specified
Vehicle Adapters	Yes
<u>Logistical Parameters</u>	
Programming	Yes
Repairs	Not specified
Decontamination	Not specified
Durability/Ruggedness	HAZMAT, EMS, fire, and law enforcement use
Environmental Conditions	Operating: -43.6 °F to 140 °F Storage: -40 °F to 185 °F, and up to 95 % @ 131 °F
Unit Cost	Not specified
Battery Cycle Life	Not specified
Rapid Charge Battery Cycle Life	Yes
Maintenance Cost	Not specified
Interface Capability	Yes
<u>Special Requirements</u>	
Operator Skills Required	Not specified
Operator Training Requirements	Not specified
Training Available	Not specified
Manuals Available	Not specified
Applicable Regulations	Not specified
Support Equipment	Available
Warranty	Not specified
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810D, Method 516.3, Procedure VI and Mil Spec 810D, Method 514.3, and Category I
Intrinsically Safe	Not specified

General

Name

***Transportable Radio Interconnect System,
TRP-1000***

ID# 54



Model Number(s)

TRP-1000

Technology

Interconnect, trunking/conventional Transportable Radio Interconnect System

Manufacturer

JPS Communications, Inc.
5720M Capital Blvd.
Raleigh, North Carolina 27616
919-790-1011 (Tel)
919-790-1456 (Fax)

e-mail: jps@jps.com
<http://www.jps.com>

Secure Communication Capability

Yes

Availability

Available

Frequency Range

Not applicable

Number of Personnel Supported by System

Multiple

Geographic Coverage

Not specified

Current User(s)

U.S. Army Corps of Engineers, and Federal Emergency Management Agency

Source

JPS Communications
<http://www.jps.com>

Operational Parameters

Number of Channels

Provides communications interoperability between HF, VHF low band, VHF high band, UHF, 800 MHz, trunking talk-groups and encrypted networks

Transmitter Power Output Levels

Not specified

Battery Options

Not specified

Battery Recharging Options

Not specified

Physical Parameters

Size

Not specified

Weight

Not specified

Power Requirements

Not specified

External Power

No

Available Accessories

Speaker-Microphones	Not applicable
Carrying Cases	Yes
Battery Eliminators	Not specified
Vehicle Adapters	Not specified

Logistical Parameters

Programming	Not specified
Repairs	Not specified
Decontamination	Not specified
Durability/Ruggedness	HAZMAT, EMS, fire, and law enforcement use
Environmental Conditions	Not specified
Unit Cost	Not specified
Battery Cycle Life	Not specified
Rapid Charge Battery Cycle Life	Not specified
Maintenance Cost	Not specified
Interface Capability	Yes

Special Requirements

Operator Skills Required	Not specified
Operator Training Requirements	Not specified
Training Available	Not specified
Manuals Available	Not specified
Applicable Regulations	Not specified
Support Equipment	Available
Warranty	Not specified
Mil Spec/Mil-Std Ratings	Not specified
Intrinsically Safe	Not specified

General

Name

***Kenwood Synthesized FM Portable Radio;
TK-260/G***

ID# 55



Model Number(s)

TK-260/G

Technology

Portable, conventional; trunking capable with optional accessory board

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

No

Availability

Available

Frequency Range

150 MHz to 174 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Kenwood

Operational Parameters

Number of Channels

8 channels

Transmitter Power Output Levels

Hi: 5 W; low: 1 W

Battery Options

NiCad (7.2 V, 600 mAh)
NiCad (7.2 V, 1100 mAh)

Battery Recharging Options

Regular rate charger, rapid charger, conditioning rapid battery charger, multi-charger adapter, regular rate and rapid rate vehicular charger adapter

Physical Parameters

Size

2.3 in x 5.3 in x 1.3 in

Weight

14 oz with battery and antenna

Power Requirements

7.5 V dc

External Power

No

Available Accessories

Speaker-Microphones

Speaker microphone, compact low-profile speaker microphone, earphone, headset, and lapel microphone with earphone

Carrying Cases

Leather case, swivel case adapter, swivel belt loop, and water-resistant bag

Battery Eliminators

Not specified

Vehicle Adapters

No

Logistical Parameters

Programming

Dealer/User (authorized technician)

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Monocoque aluminum die-cast chassis-heat sink surrounded by polycarbonate case. Gasket seals and polyvinyl speaker cone prevent moisture penetration for wet weather use.

Environmental Conditions

-22 °F to 140 °F

Unit Cost

\$380

Battery Cycle Life

At least 4 h with 5/5/90 cycle

Rapid Charge Battery Cycle Life

Rapid charger, conditioning rapid battery charger, and rapid rate vehicular charger

Maintenance Cost

Not specified

Interface Capability

Not specified

Special Requirements

Operator Skills Required

Average

Operator Training Requirements

Average

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

Not specified

Support Equipment

Battery, battery case, chargers, microphone, earphone, coil cord, antenna, belt hook, leather case, and water-resistant bag

Warranty

2 yr

Mil Spec/Mil-Std Ratings

Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

Intrinsically Safe

No

General

Name

***Kenwood Synthesized FM Portable Radio;
TK-270/G***

ID# 56

Picture Not Available

Model Number(s)

TK-270/G

Technology

Portable, conventional; trunking capable with accessory

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

No

Availability

Available

Frequency Range

150 MHz to 174 MHz
136 MHz to 150 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Kenwood

Operational Parameters

Number of Channels

128 channels

Transmitter Power Output Levels

Hi: 5 W; low: 1 W

Battery Options

AA alkaline batteries
NiCad (7.2 V, 600 mAh)
NiCad (7.2 V, 1100 mAh)

Battery Recharging Options

Six unit charger adapter, regular rate single unit desk charger, 220 V regular rate single unit desk charger, rapid rate single unit desk charger, 220 V rapid rate single unit desk charger, rapid rate dc vehicular charger, and rapid rate dc vehicular charger

Physical Parameters

Size

2.3 in x 5.3 in x 1.3 in

Weight

14 oz with battery and antenna

Power Requirements

7.5 V dc

External Power

No

Available Accessories

Speaker-Microphones
Carrying Cases

Microphone and speakers, heavy duty and light duty

Heavy duty carrying case with bungi-cord, cordura nylon carrying case, water-resistant bag, and rubber protective case

Battery Eliminators
Vehicle Adapters

Not specified

No

Logistical Parameters

Programming

Dealer/User (authorized technician)

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Monocoque aluminum die-cast chassis-heat sink surrounded by polycarbonate case. Gasket seals and polyvinyl speaker cone prevent moisture penetration for wet weather use.

Environmental Conditions

-22 °F to 140 °F

Unit Cost

\$465

Battery Cycle Life

At least 4 h with 5/5/90 cycle

Rapid Charge Battery Cycle Life

Rapid rate single unit desk charger, rapid rate single unit battery charger with preconditioning discharge features, and rapid rate dc vehicular charger adapter

Maintenance Cost

Not specified

Interface Capability

Not specified

Special Requirements

Operator Skills Required

Average

Operator Training Requirements

Average

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

Not specified

Support Equipment

Microphone and speakers, service related accessories, antennas, batteries and chargers, carrying accessories, and digital radio camera

Warranty

2 yr

Mil Spec/Mil-Std Ratings

Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

Intrinsically Safe

No

General

Name

***Kenwood Synthesized FM Portable Radio;
TK-360/G***

ID# 57



Model Number(s)

TK-360/G

Technology

Portable, conventional; trunking capable with accessory

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

No

Availability

Available

Frequency Range

450 MHz to 470 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Kenwood

Operational Parameters

Number of Channels

8 channels

Transmitter Power Output Levels

Hi: 4 W; low: 1 W

Battery Options

NiCad (7.2 V, 600 mAh)
NiCad (7.2 V, 1100 mAh)

Battery Recharging Options

Regular rate charger, rapid charger, conditioning rapid battery charger, multi-charger adapter, regular rate and rapid rate vehicular charger adapter

Physical Parameters

Size

2.3 in x 5.3 in x 1.3 in

Weight

14.4 oz

Power Requirements

7.5 V dc

External Power

No

Available Accessories

Speaker-Microphones

Speaker microphone, compact low-profile speaker microphone, earphone, headset, and lapel microphone with earphone

Carrying Cases

Leather case, swivel case adapter, swivel belt loop, and water-resistant bag

Battery Eliminators

Not specified

Vehicle Adapters

No

Logistical Parameters

Programming

Dealer/User (authorized technician)

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Monocoque aluminum die-cast chassis-heat sink surrounded by polycarbonate case. Gasket seals and polyvinyl speaker cone prevent moisture penetration for wet weather use.

Environmental Conditions

-22 °F to 140 °F

Unit Cost

\$430

Battery Cycle Life

At least 4 h with 5/5/90 cycle

Rapid Charge Battery Cycle Life

Rapid charger, conditioning rapid battery charger, and rapid rate vehicular charger

Maintenance Cost

Not specified

Interface Capability

Not specified

Special Requirements

Operator Skills Required

Average

Operator Training Requirements

Average

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

Not specified

Support Equipment

Battery, battery case, chargers, microphone, earphone, coil cord, antenna, belt hook, leather case, and water-resistant bag

Warranty

2 yr

Mil Spec/Mil-Std Ratings

Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

Intrinsically Safe

No

General

Name

***Kenwood Synthesized FM Portable Radio;
TK-370/G***

ID# 58



Model Number(s)

TK-370/G

Technology

Portable, conventional; trunking capable with accessory

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

No

Availability

Available

Frequency Range

450 MHz to 470 MHz
470 MHz to 490 MHz
490 MHz to 512 MHz
403 MHz to 430 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Kenwood

Operational Parameters

Number of Channels

128 channels

Transmitter Power Output Levels

Hi: 4 W; low: 1 W

Battery Options

AA alkaline batteries
NiCad (7.2 V, 600 mAh)
NiCad (7.2 V, 1100 mAh)

Battery Recharging Options

Six unit charger adapter, regular rate single unit desk charger, 220 V regular rate single unit desk charger, rapid rate single unit desk charger, 220 V rapid rate single unit desk charger, rapid rate dc vehicular charger, and rapid rate dc vehicular charger

Physical Parameters

Size

2.3 in x 5.3 in x 1.3 in

Weight

4 oz with battery and antenna

Power Requirements	7.5 V dc
External Power	No
<u>Available Accessories</u>	
Speaker-Microphones	Microphone and speakers, heavy duty and light duty
Carrying Cases	Heavy duty carrying case with bungi-cord, cordura nylon carrying case, water-resistant bag, and rubber protective case
Battery Eliminators	Not specified
Vehicle Adapters	No
<u>Logistical Parameters</u>	
Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Monocoque aluminum die-cast chassis-heat sink surrounded by polycarbonate case. Gasket seals and polyvinyl speaker cone prevent moisture penetration for wet weather use.
Environmental Conditions	-22 °F to 140 °F
Unit Cost	\$505
Battery Cycle Life	At least 4 h with 5/5/90 cycle
Rapid Charge Battery Cycle Life	Rapid rate single unit desk charger, rapid rate single unit battery charger with preconditioning discharge features, and rapid rate dc vehicular charger adapter
Maintenance Cost	Not specified
Interface Capability	Not specified
<u>Special Requirements</u>	
Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	Not specified
Support Equipment	Microphone and speakers, service related accessories, antennas, batteries and chargers, carrying accessories, and digital radio camera
Warranty	2 yr
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	No

General

Name

***Kenwood Compact Synthesized FM Mobile Radio;
TK-760G***

ID# 59



Model Number(s)

TK-760G

Technology

Mobile, conventional; trunking capable with optional accessory board

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

No

Availability

Available

Frequency Range

136 MHz to 162 MHz
148 MHz to 174 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Not specified

Current User(s)

Transportation

Source

Kenwood

Operational Parameters

Number of Channels

Maximum 128 channels

Transmitter Power Output Levels

25 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

5.5 in x 1.6 in x 5.7 in

Weight

2.1 lb

Power Requirements

13.6 ± 15 % V dc

External Power

Yes

Available Accessories

Speaker-Microphones

Not applicable

Carrying Cases	Not applicable
Battery Eliminators	Not applicable
Vehicle Adapters	Not applicable

Logistical Parameters

Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Heavy-duty construction
Environmental Conditions	-22 °F to 140 °F
Unit Cost	\$489
Battery Cycle Life	Not applicable
Rapid Charge Battery Cycle Life	Not applicable
Maintenance Cost	Not specified
Interface Capability	Mobile data ready data connection port allows voice and/or data communications using modems, MTD's and digital messaging equipment

Special Requirements

Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	FCC ID: Type 1 and 2 FCC Compliance: Type 1 and 2
Support Equipment	Switching unit, ignition sense cable, accessories connection cable, external speakers, mobile GPS, receiver, base modem unit, line noise filter, mounting case, key lock adapter, microphones, and dc power supply
Warranty	2 yr
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	No

General

Name

***Kenwood Compact Synthesized FM Mobile Radio;
TK-860G***

ID# 60

Picture Not Available

Model Number(s)

TK-860G

Technology

Mobile, conventional; trunking capable with optional accessory board

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

No

Availability

Available

Frequency Range

450 MHz to 490 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Not specified

Current User(s)

Transportation

Source

Kenwood

Operational Parameters

Number of Channels

Maximum 128 channels

Transmitter Power Output Levels

25 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

5.5 in x 1.6 in x 5.7 in

Weight

2.1 lb

Power Requirements

13.6 ± 15 % V dc

External Power

Yes

Available Accessories

Speaker-Microphones

Not applicable

Carrying Cases

Not applicable

Battery Eliminators

Not applicable

Vehicle Adapters

Not applicable

Logistical Parameters

Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Heavy-duty construction
Environmental Conditions	-22 °F to 140 °F
Unit Cost	\$519
Battery Cycle Life	Not applicable
Rapid Charge Battery Cycle Life	Not applicable
Maintenance Cost	Not specified
Interface Capability	Mobile data ready data connection port allows voice and/or data communications using modems, MTD's and digital messaging equipment

Special Requirements

Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	FCC ID: Type 1 and 2 FCC Compliance: Type 1 and 2
Support Equipment	GPS receiver, base modem unit, line noise filter, mounting case, key lock adapter, microphones, and dc power supply
Warranty	2 yr
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	No

General

Name

***Kenwood Compact Synthesized FM Mobile Radio;
TK-762G***

ID# 61



Model Number(s)

TK-762G

Technology

Mobile, conventional; trunking capable with optional accessory board

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

No

Availability

Available

Frequency Range

136 MHz to 162 MHz
148 MHz to 174 MHz

Number of Personnel Supported by System

Multiple

Geographic Coverage

Not specified

Current User(s)

Transportation

Source

Kenwood

Operational Parameters

Number of Channels

Maximum 8 channels

Transmitter Power Output Levels

25 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

5.5 in x 1.6 in x 5.7 in

Weight

2.1 lb

Power Requirements

13.6 V dc \pm 15 %

External Power

Not applicable

Available Accessories

Speaker-Microphones

Not applicable

Carrying Cases	Not applicable
Battery Eliminators	Not applicable
Vehicle Adapters	Not applicable
<u>Logistical Parameters</u>	
Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Meet or exceed government environmental standards covering shock, vibration, and dust for long-term durability in rough vehicle environments. Heavy-duty construction provides long-lasting field life.
Environmental Conditions	-22 °F to 140 °F
Unit Cost	\$429
Battery Cycle Life	Not applicable
Rapid Charge Battery Cycle Life	Not applicable
Maintenance Cost	Not specified
Interface Capability	Data ready connection port for MDT/modem application
<u>Special Requirements</u>	
Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	FCC ID: Type 1 and 2 FCC Compliance: Type 1 and 2
Support Equipment	PA/HA switching unit, ignition sense cable, accessories connection cable, connection cable, external speakers, mobile GPS modem unit, base modem unit, line noise filter, mounting case, key lock adapter, microphones, and dc power supply
Warranty	2 yr
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	No

General

Name

***Kenwood Compact Synthesized FM Mobile Radio;
TK-862G***

ID# 62



Model Number(s)

TK-862G

Technology

Mobile, conventional; trunking capable with optional accessory board

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

No

Availability

Available

Frequency Range

450 MHz to 490 MHz

Number of Personnel Supported by System

Multiple

Geographic Coverage

Not specified

Current User(s)

Transportation

Source

Kenwood

Operational Parameters

Number of Channels

Maximum 8 channels

Transmitter Power Output Levels

25 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

5.5 in x 1.6 in x 5.7 in

Weight

2.1 lb

Power Requirements

13.6 V dc \pm 15 %

External Power

Not applicable

Available Accessories

Speaker-Microphones

Not applicable

Carrying Cases

Not applicable

Battery Eliminators

Not applicable

Vehicle Adapters

Not applicable

Logistical Parameters

Programming

Dealer/User (authorized technician)

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Meet or exceed government environmental standards covering shock, vibration, and dust for long-term durability in rough vehicle environments. Heavy-duty construction provides long-lasting field life.

Environmental Conditions

-22 °F to 140 °F

Unit Cost

\$459

Battery Cycle Life

Not applicable

Rapid Charge Battery Cycle Life

Not applicable

Maintenance Cost

Not specified

Interface Capability

Data ready connection port for MDT/modem applications

Special Requirements

Operator Skills Required

Average

Operator Training Requirements

Average

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

FCC ID: Type 1 and 2
FCC Compliance: Type 1 and 2

Support Equipment

PA/HA switching unit, ignition sense cable, accessories connection cable, connection cable, external speakers, mobile GPS modem unit, base modem unit, line noise filter, mounting case, key lock adapter, microphones, and dc power supply

Warranty

2 yr

Mil Spec/Mil-Std Ratings

Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

Intrinsically Safe

No

General

Name

***Kenwood Compact Synthesized FM Mobile Radio;
TK-760H***

ID# 63



Model Number(s)

TK-760H

Technology

Mobile, conventional

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

Voice encryption-ready using voice scrambler control
(on/off & code selection)

Availability

Available

Frequency Range

148 MHz to 174 MHz
136 MHz to 156 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Not specified

Current User(s)

Transportation

Source

Kenwood

Operational Parameters

Number of Channels

32 semiduplex channels

Transmitter Power Output Levels

25 W to 45 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

5.5 in x 1.6 in x 6.7 in

Weight

2.2 lb

Power Requirements

13.6 ± 15 % V dc

External Power

Yes

Available Accessories

Speaker-Microphones

Not applicable

Carrying Cases

Not applicable

Battery Eliminators

Not applicable

Vehicle Adapters

Not applicable

Logistical Parameters

Programming

Dealer/User (authorized technician)

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Die-case chassis/heat sink and rugged design meets Mil-Std specifications for shock, vibration and dust

Environmental Conditions

-22 °F to 140 °F

Unit Cost

\$549

Battery Cycle Life

Not applicable

Rapid Charge Battery Cycle Life

Not applicable

Maintenance Cost

Not specified

Interface Capability

Mobile data-ready port for MDT/modem applications

Special Requirements

Operator Skills Required

Average

Operator Training Requirements

Average

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

FCC ID and Compliance: Type 1, 2, 3, and 4
IC Certification: Type 1 and 2
Applicable EIA/TIA Standard

Support Equipment

Hand microphone, programming disk, PA/HA unit, programming interface cable, external speaker, control station desktop microphone, line noise filter, dc power supply, ignition sense cable, accessories connection cable, and mounting case

Warranty

2 yr

Mil Spec/Mil-Std Ratings

Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

Intrinsically Safe

No

General

Name

***Kenwood Compact Synthesized FM Mobile Radio;
TK-860H***

ID# 64



Model Number(s)

TK-860H

Technology

Mobile, conventional

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

Voice encryption-ready using voice scrambler control
(on/off & code selection)

Availability

Available

Frequency Range

450 MHz to 476 MHz
470 MHz to 496 MHz
488 MHz to 512 MHz
406 MHz to 430 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Not specified

Current User(s)

Transportation

Source

Kenwood

Operational Parameters

Number of Channels

32 semiduplex channels

Transmitter Power Output Levels

25 W to 35 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

5.5 in x 1.6 in x 6.7 in

Weight

2.2 lb

Power Requirements

13.6 ± 15 % V dc

External Power

Yes

Available Accessories

Speaker-Microphones	Not applicable
Carrying Cases	Not applicable
Battery Eliminators	Not applicable
Vehicle Adapters	Not applicable

Logistical Parameters

Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Die-case chassis/heat sink and rugged design meets Mil-Std specifications for shock, vibration and dust
Environmental Conditions	-22 °F to 140 °F
Unit Cost	\$599
Battery Cycle Life	Not applicable
Rapid Charge Battery Cycle Life	Not applicable
Maintenance Cost	Not specified
Interface Capability	Mobile data-ready port for MDT/modem applications

Special Requirements

Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	Not specified
Support Equipment	Hand microphone, programming disk, PA/HA unit, programming interface cable, external speaker, control station desktop microphone, line noise filter, dc power supply, ignition sense cable, accessories connection cable, and mounting case
Warranty	2 yr
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	No

General

Name

***Kenwood Compact Synthesized FM Mobile Radio;
TK-762H***

ID# 65



Model Number(s)

TK-762H

Technology

Mobile, conventional

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

Voice encryption-ready: easy access connection points provided

Availability

Available

Frequency Range

136 MHz to 156 MHz
148 MHz to 174 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Not specified

Current User(s)

Transportation

Source

Kenwood

Operational Parameters

Number of Channels

2 semiduplex channels

Transmitter Power Output Levels

Standard 25 W
H-Model 45 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

5.5 in x 1.6 in x 6.7 in

Weight

2.2 lb

Power Requirements

13.6 V dc negative ground

External Power

Not applicable

Available Accessories

Speaker-Microphones

Not applicable

Carrying Cases	Not applicable
Battery Eliminators	Not applicable
Vehicle Adapters	Not applicable
<u>Logistical Parameters</u>	
Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Die-cast chassis/heat sink and rugged design
Environmental Conditions	-22 °F to 140 °F
Unit Cost	\$469
Battery Cycle Life	Not applicable
Rapid Charge Battery Cycle Life	Not applicable
Maintenance Cost	Not specified
Interface Capability	Data ready connection port for MDT/Modem applications
<u>Special Requirements</u>	
Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	FCC ID and Compliance: Type 1, 2, 3, and 4 IC Certification: Type 1 and 2 Applicable EIA/TIA Standard
Support Equipment	Hand microphone, programming disk, PA/HA unit, programming interface cable, external speaker, desktop microphone, line noise filter, dc power supply, ignition sense cable, accessories connection cable, and mounting case
Warranty	2 yr
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	No

General

Name

***Kenwood Compact Synthesized FM Mobile Radio;
TK-862H***

ID# 66



Model Number(s)

TK-862HG

Technology

Mobile, conventional

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

Voice encryption-ready: easy access connection points provided

Availability

Available

Frequency Range

450 MHz to 476 MHz
470 MHz to 496 MHz
488 MHz to 512 MHz
406 MHz to 430 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Not specified

Current User(s)

Transportation

Source

Kenwood

Operational Parameters

Number of Channels

2 semiduplex channels

Transmitter Power Output Levels

Standard 25 W
H-Model 35 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

5.5 in x 1.6 in x 6.7 in

Weight

2.2 lb

Power Requirements

13.6 V dc negative ground

External Power

Not applicable

Available Accessories

Speaker-Microphones	Not applicable
Carrying Cases	Not applicable
Battery Eliminators	Not applicable
Vehicle Adapters	Not applicable

Logistical Parameters

Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Die-cast chassis/heat sink and rugged design
Environmental Conditions	-22 °F to 140 °F
Unit Cost	\$539
Battery Cycle Life	Not applicable
Rapid Charge Battery Cycle Life	Not applicable
Maintenance Cost	Not specified
Interface Capability	Data ready connection port for MDT/Modem applications

Special Requirements

Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	FCC ID and Compliance: Type 1, 2, 3, and 4 IC Certification: Type 1 and 2 Applicable EIA/TIA Standard
Support Equipment	Hand microphone, programming disk, PA/HA unit, programming interface cable, external speaker, desktop microphone, line noise filter, dc power supply, ignition sense cable, accessories connection cable, and mounting case
Warranty	2 yr
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	No

General

Name

***Kenwood Public Safety Mobile FM Radios;
TK-690H***

ID# 67

Picture Not Available

Model Number(s)

TK-690H

Technology

Mobile, conventional

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

Encryption control: Secure voice capabilities are available with optional scrambler modules. An internal port permits the addition of these modules to provide voice scrambling from low-level inversion to high-level encryption.

Availability

Available

Frequency Range

29.7 MHz to 37.0 MHz
35 MHz to 43 MHz
40 MHz to 50 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Not specified

Current User(s)

Public Safety Units

Source

Kenwood

Operational Parameters

Number of Channels

160 channels

Transmitter Power Output Levels

110 adjustable to 45 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

7 in x 2.4 in x 12.9 in

Weight

7.9 lb

Power Requirements

13.4 V dc \pm 15 %

External Power

Not applicable

Available Accessories

Speaker-Microphones	Not applicable
Carrying Cases	Not applicable
Battery Eliminators	Not applicable
Vehicle Adapters	Not applicable

Logistical Parameters

Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Aluminum die-cast chassis heat-sink provides strength and heat dissipation, spring-action gold-alloy elements for excellent contact, conductivity and anti-corrosive properties, making units resistant to water, dust, and other environmental conditions. Satisfies the driven rain standard.
Environmental Conditions	-22 °F to 140 °F
Unit Cost	\$1K
Battery Cycle Life	Not applicable
Rapid Charge Battery Cycle Life	Not applicable
Maintenance Cost	Not specified
Interface Capability	Not specified

Special Requirements

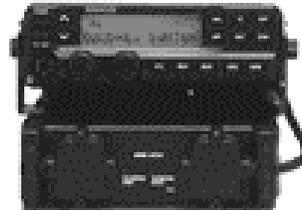
Operator Skills Required	Experienced
Operator Training Requirements	Experienced
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	Not specified
Support Equipment	Remote control heads and kits, remote control cables, ignition sense cable, mounting brackets, key lock adapter, external speaker, microphone, keypad microphone, desktop microphone, line filter, and dc power supply
Warranty	2 yr
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	No

General

Name

Kenwood Public Safety Mobile FM Radios; TK-790

ID# 68



Model Number(s)

TK-790

Technology

Mobile, conventional

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

No

Availability

Available

Frequency Range

136 MHz to 156 MHz
148 MHz to 174 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Not specified

Current User(s)

Public Safety Units

Source

Kenwood

Operational Parameters

Number of Channels

160 channels

Transmitter Power Output Levels

110 adjustable to 5 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

7 in x 2.4 in x 7.7 in

Weight

5.7 lb

Power Requirements

13.6 V dc \pm 15 %

External Power

Not applicable

Available Accessories

Speaker-Microphones

Not applicable

Carrying Cases	Not applicable
Battery Eliminators	Not applicable
Vehicle Adapters	Not applicable

Logistical Parameters

Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Rugged Use
Environmental Conditions	-22 °F to 140 °F
Unit Cost	\$730
Battery Cycle Life	Not applicable
Rapid Charge Battery Cycle Life	Not applicable
Maintenance Cost	Not specified
Interface Capability	Not specified

Special Requirements

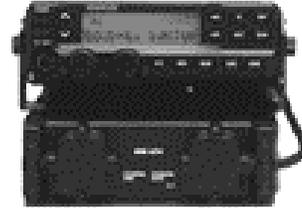
Operator Skills Required	Experienced
Operator Training Requirements	Experienced
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	Not specified
Support Equipment	Available
Warranty	2 yr
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	No

General

Name

***Kenwood Public Safety Mobile FM Radios;
TK-790H***

ID# 69



Model Number(s)

TK-790H

Technology

Mobile, conventional

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

Encryption control: Secure voice capabilities are available with optional scrambler modules. An internal port permits the addition of these modules to provide voice scrambling from low-level inversion to high-level encryption.

Availability

Available

Frequency Range

148 MHz to 174 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Not specified

Current User(s)

Public Safety Units

Source

Kenwood

Operational Parameters

Number of Channels

160 channels

Transmitter Power Output Levels

110 adjustable to 45 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

7 in x 2.4 in x 12.9 in

Weight

7.9 lb

Power Requirements

13.4 V dc \pm 15 %

External Power

Not applicable

Available Accessories

Speaker-Microphones	Not applicable
Carrying Cases	Not applicable
Battery Eliminators	Not applicable
Vehicle Adapters	Not applicable

Logistical Parameters

Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Aluminum die-cast chassis heat-sink provides strength and heat dissipation, spring-action gold-alloy elements for excellent contact, conductivity and anti-corrosive properties, making units resistant to water, dust, and other environmental conditions. Satisfies the driven rain standard.
Environmental Conditions	-22 °F to 140 °F
Unit Cost	\$1.2K
Battery Cycle Life	Not applicable
Rapid Charge Battery Cycle Life	Not applicable
Maintenance Cost	Not specified
Interface Capability	Not specified

Special Requirements

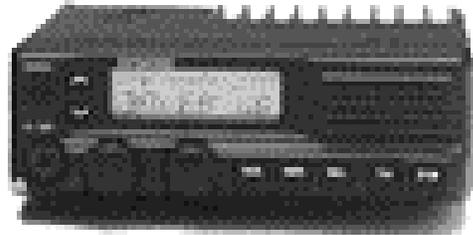
Operator Skills Required	Experienced
Operator Training Requirements	Experienced
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	Not specified
Support Equipment	Remote control heads and kits, remote control cables, ignition sense cable, mounting brackets, key lock adapter, external speaker, microphone, keypad microphone, desktop microphone, line filter, and dc power supply
Warranty	2 yr
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	No

General

Name

***Kenwood Public Safety Mobile FM Radios;
TK-890***

ID# 70



Model Number(s)

TK-890

Technology

Mobile, conventional

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

No

Availability

Available

Frequency Range

403 MHz to 430 MHz
450 MHz to 490 MHz
480 MHz to 512 MHz
Unlimited

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Not specified

Current User(s)

Public Safety Units

Source

Kenwood

Operational Parameters

Number of Channels

160 channels

Transmitter Power Output Levels

40 W adjustable to 5 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

7 in x 2.4 in x 7.7 in

Weight

5.7 lb

Power Requirements

13.6 ± 15 % V dc

External Power

Not applicable

Available Accessories

Speaker-Microphones

Not applicable

Carrying Cases

Not applicable

Battery Eliminators Not applicable
Vehicle Adapters Not applicable

Logistical Parameters

Programming Dealer/User (authorized technician)
Repairs Dealer
Decontamination Not specified
Durability/Ruggedness Rugged use
Environmental Conditions -22 °F to 140 °F
Unit Cost \$780
Battery Cycle Life Not applicable
Rapid Charge Battery Cycle Life Not applicable
Maintenance Cost Not specified
Interface Capability Not specified

Special Requirements

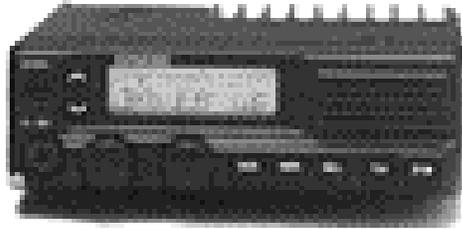
Operator Skills Required Experienced
Operator Training Requirements Experienced
Training Available Yes
Manuals Available Yes
Applicable Regulations Not specified
Support Equipment Not specified
Warranty 2 yr
Mil Spec/Mil-Std Ratings Meets Mil Spec 810C, Mil Spec 810D, and
Mil Spec 810E
Intrinsically Safe No

General

Name

***Kenwood Public Safety Mobile FM Radios;
TK-890H***

ID# 71



Model Number(s)

TK-890H

Technology

Mobile, conventional

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

Encryption control: Secure voice capabilities are available with optional scrambler modules. An internal port permits the addition of these modules to provide voice scrambling from low-level inversion to high-level encryption.

Availability

Available

Frequency Range

450 MHz to 490 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Not specified

Current User(s)

Public Safety Units

Source

Kenwood

Operational Parameters

Number of Channels

160 channels

Transmitter Power Output Levels

40 W to 100 W (depending on the version)

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

7 in x 2.4 in x 12.9 in

Weight

7.9 lb

Power Requirements

13.4 ± 15 % V dc

External Power

Not applicable

Available Accessories

Speaker-Microphones	Not applicable
Carrying Cases	Not applicable
Battery Eliminators	Not applicable
Vehicle Adapters	Not applicable

Logistical Parameters

Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Aluminum die-cast chassis heat-sink provides strength and heat dissipation, spring-action gold-alloy elements for excellent contact, conductivity and anti-corrosive properties, making units resistant to water, dust, and other environmental conditions. Satisfies the driven rain standard.
Environmental Conditions	-22 °F to 140 °F
Unit Cost	\$1.2K
Battery Cycle Life	Not applicable
Rapid Charge Battery Cycle Life	Not applicable
Maintenance Cost	Not specified
Interface Capability	Not specified

Special Requirements

Operator Skills Required	Experienced
Operator Training Requirements	Experienced
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	Not specified
Support Equipment	Remote control heads and kits, remote control cables, ignition sense cable, mounting brackets, key lock adapter, external speaker, microphone, keypad microphone, desktop microphone, line filter, and dc power supply
Warranty	2 yr
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	No

General

Name

Kenwood VHF/UHF Mobile Radio; TK-780

ID# 72



Model Number(s)

TK-780

Technology

Mobile, conventional and trunked

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

Encryption control: An internal port permits addition of optional modules to provide voice scrambling from low-level inversion to high-level encryption types. The radio programming also provides both automatic and manual control for clear and coded modes

Availability

Available

Frequency Range

136 MHz to 162 MHz
146 MHz to 174 MHz

Number of Personnel Supported by System

Multiple

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Kenwood

Operational Parameters

Number of Channels

Systems (trunked mode): maximum 32 channels
Groups (trunked mode): maximum 250 channels
Trunked/conventional: maximum 600/maximum 250 channels

Transmitter Power Output Levels

25 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

5.5 in x 1.6 in x 5.7 in

Weight

2.1 lb

Power Requirements

13.6 V dc \pm 15 %

External Power	Not applicable
<u>Available Accessories</u>	
Speaker-Microphones	Not applicable
Carrying Cases	Not applicable
Battery Eliminators	Not applicable
Vehicle Adapters	Not applicable
<u>Logistical Parameters</u>	
Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Lightweight die-cast chassis provides exceptional strength while providing natural transmit heat dissipation. Interlocking metal covers and seals lockout moisture and dust.
Environmental Conditions	-22 °F to 140 °F
Unit Cost	\$580
Battery Cycle Life	Not applicable
Rapid Charge Battery Cycle Life	Not applicable
Maintenance Cost	Not specified
Interface Capability	Not specified
<u>Special Requirements</u>	
Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	FCC ID: Type 1, 2, and 3 FCC Compliance: Type 1, 2, and 3 IC Certification: Type 1, 2, and 3
Support Equipment	Microphones (desktop, mobile, mobile with keypad), ignition sense cable, accessories connector cable, external speakers, mounting case, key lock adapter, dc power supply, line noise filter, and PA/HA unit
Warranty	2 yr
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	No

General

Name

Kenwood VHF/UHF Mobile Radio; TK-880

ID# 73



Model Number(s)

TK-880

Technology

Mobile, conventional and trunked

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

Encryption control: An internal port permits addition of optional modules to provide voice scrambling from low-level inversion to high-level encryption types. The radio programming also provides both automatic and manual control for clear and coded modes.

Availability

Available

Frequency Range

450 MHz to 490 MHz
485 MHz to 512 MHz
400 MHz to 430 MHz

Number of Personnel Supported by System

Multiple

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Kenwood

Operational Parameters

Number of Channels

Systems (trunked mode): maximum 32 channels
Groups (trunked mode): maximum 250 channels
Trunked/conventional: maximum 600/maximum 250 channels

Transmitter Power Output Levels

25 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

5.5 in x 1.6 in x 5.7 in

Weight

2.1 lb

Power Requirements	13.6 V dc \pm 15 %
External Power	Not applicable
<u>Available Accessories</u>	
Speaker-Microphones	Not applicable
Carrying Cases	Not applicable
Battery Eliminators	Not applicable
Vehicle Adapters	Not applicable
<u>Logistical Parameters</u>	
Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Lightweight die-cast chassis provides exceptional strength while providing natural transmit heat dissipation. Interlocking metal covers and seals lockout moisture and dust.
Environmental Conditions	-22 °F to 140 °F
Unit Cost	\$600
Battery Cycle Life	Not applicable
Rapid Charge Battery Cycle Life	Not applicable
Maintenance Cost	Not specified
Interface Capability	Not specified
<u>Special Requirements</u>	
Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	FCC ID: Type 1, 2, and 3 FCC Compliance: Type 1, 2, and 3 IC Certification: Type 1, 2, and 3
Support Equipment	Microphones (desktop, mobile, mobile with keypad), ignition sense cable, accessories connector cable, external speakers, mounting case, key lock adapter, dc power supply, line noise filter, and PA/HA unit
Warranty	2 yr
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	No

General

Name

Kenwood Transceiver, Portable; TK-2100

ID# 74



Model Number(s)

TK-2100, ProTalk*

Technology

Portable, conventional

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

Secure Communication Capability

No

Availability

Available

Frequency Range

150 MHz to 160 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

5 mi line of sight

Current User(s)

Not specified

Source

Kenwood

Operational Parameters

Number of Channels

1 or 2 channels

Transmitter Power Output Levels

2 W

Battery Options

AA alkaline, NiCad battery, extended NiCad battery

Battery Recharging Options

Six unit charger adapter, single unit desk charger (regular and rapid rate), 220 V single unit desk charger (regular and rapid rate), dc vehicular charger adapter (regular and rapid rate), and rapid rate single unit charger with pre-conditioning discharge features

Physical Parameters

Size

2.3 in x 4.9 in x 1.3 in (with battery)

Weight

11.2 oz (with battery)

Power Requirements

7.2 V dc

External Power

No

Available Accessories

Speaker-Microphones

Clip microphone with earphone, headset, earphone kit, earset with flex boom microphone and swivel earloop, single muff headset with boom microphone, palm microphone with earphone, and speaker microphone

Carrying Cases

Heavy duty carrying case, nylon case, horizontal-wear nylon case, water resistant bag, and rubber protective case

Battery Eliminators

No

Vehicle Adapters

No

Logistical Parameters

Programming

Dealer/User (authorized technician)

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Die-cast chassis, polycarbonate case, weather-sealed construction. Meets military environmental standards for light rain, humidity, dust, vibration, and shock.

Environmental Conditions

-22 °F to 140 °F

Unit Cost

\$259

Battery Cycle Life

8 h with 5/5/90 cycle

Rapid Charge Battery Cycle Life

Single unit desk charger (rapid rate), 220 V single unit desk charger (rapid rate), dc vehicular charger adapter (rapid rate), and rapid rate single unit charger with pre-conditioning discharge features

Maintenance Cost

Not specified

Interface Capability

Not specified

Special Requirements

Operator Skills Required

Minimal

Operator Training Requirements

Minimal

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

Not specified

Support Equipment

Antennas, batteries and chargers, carrying accessories, microphone and speakers, and service related accessories

Warranty

2 yr

Mil Spec/Mil-Std Ratings

Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

Intrinsically Safe

No

General

Name

Kenwood Transceiver, Portable; TK-3100

ID# 75

Picture Not Available

Model Number(s)

TK-3100, ProTalk™

Technology

Portable, conventional

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

No

Availability

Available

Frequency Range

460 MHz to 470 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

5 mi line of sight

Current User(s)

Not specified

Source

Kenwood

Operational Parameters

Number of Channels

1 or 2 channels

Transmitter Power Output Levels

2 W

Battery Options

AA alkaline, NiCad battery, extended NiCad battery

Battery Recharging Options

Six unit charger adapter, single unit desk charger (regular and rapid rate), 220 V single unit desk charger (regular and rapid rate), dc vehicular charger adapter (regular and rapid rate), and rapid rate single unit charger with pre-conditioning discharge features

Physical Parameters

Size

2.3 in x 4.9 in x 1.3 in (with battery)

Weight

11.2 oz (with battery)

Power Requirements

Not specified

External Power

No

Available Accessories

Speaker-Microphones

Clip microphone with earphone, headset, earphone kit, earset with flex boom microphone and swivel earloop, single muff headset with boom microphone, palm microphone with earphone, and speaker microphone

Carrying Cases

Heavy duty carrying case, nylon case, horizontal-wear nylon case, water resistant bag, and rubber protective case

Battery Eliminators

No

Vehicle Adapters

No

Logistical Parameters

Programming

Dealer/User (authorized technician)

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Die-cast chassis, polycarbonate case, weather-sealed construction. Meets military environmental standards for light rain, humidity, dust, vibration, shock.

Environmental Conditions

-22 °F to 140 °F

Unit Cost

\$275

Battery Cycle Life

8 h with 5/5/90 cycle

Rapid Charge Battery Cycle Life

Single unit desk charger (rapid rate), 220 V single unit desk charger (rapid rate), dc vehicular charger adapter (rapid rate), and rapid rate single unit charger with pre-conditioning discharge features

Maintenance Cost

Not specified

Interface Capability

Not specified

Special Requirements

Operator Skills Required

Minimal

Operator Training Requirements

Minimal

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

Not specified

Support Equipment

Antennas, batteries and chargers, carrying accessories, microphone and speakers, and service related accessories

Warranty

2 yr

Mil Spec/Mil-Std Ratings

Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

Intrinsically Safe

No

General

Name

Kenwood Transceiver, Portable; TK-3101

ID# 76

Picture Not Available

Model Number(s)

TK-3101, FreeTalk*

Technology

Portable, conventional

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

No

Availability

Available

Frequency Range

460 MHz to 470 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

5 mi line of sight

Current User(s)

Not specified

Source

Kenwood

Operational Parameters

Number of Channels

15 channels

Transmitter Power Output Levels

2 W

Battery Options

AA alkaline, NiCad battery, extended NiCad battery

Battery Recharging Options

Six unit charger adapter, single unit desk charger (regular and rapid rate), 220 V single unit desk charger (regular and rapid rate), dc vehicular charger adapter (regular and rapid rate), and rapid rate single unit charger with pre-conditioning discharge features

Physical Parameters

Size

2.3 in x 4.9 in x 1.3 in (with battery)

Weight

11.2 oz (with battery)

Power Requirements

Not specified

External Power

No

Available Accessories

Speaker-Microphones

Clip microphone with earphone, headset, earphone kit, earset with flex boom microphone and swivel earloop, single muff headset with boom microphone, palm microphone with earphone, and speaker microphone

Carrying Cases

Heavy duty carrying case, nylon case, horizontal-wear nylon case, water resistant bag, and rubber protective case

Battery Eliminators

No

Vehicle Adapters

No

Logistical Parameters

Programming

Dealer/User (authorized technician)

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Die-cast chassis, polycarbonate case, weather-sealed construction. Meets military environmental standards for light rain, humidity, dust, vibration, and shock.

Environmental Conditions

-22 °F to 140 °F

Unit Cost

\$292

Battery Cycle Life

8 h with 5/5/90 cycle

Rapid Charge Battery Cycle Life

Single unit desk charger (rapid rate), 220 V single unit desk charger (rapid rate), dc vehicular charger adapter (rapid rate), and rapid rate single unit charger with pre-conditioning discharge features

Maintenance Cost

Not specified

Interface Capability

Not specified

Special Requirements

Operator Skills Required

Minimal

Operator Training Requirements

Minimal

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

Not specified

Support Equipment

Antennas, batteries and chargers, carrying accessories, microphone and speakers, and service related accessories

Warranty

2 yr

Mil Spec/Mil-Std Ratings

Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

Intrinsically Safe

No

General

Name

ID# 77

Kenwood VHF Fm Transceivers; TK-290



Model Number(s)

TK-290

Technology

Portable, conventional

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

Yes

Availability

Available

Frequency Range

136 MHz to 174 MHz

Number of Personnel Supported by System

Multiple

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Kenwood

Operational Parameters

Number of Channels

160 channels

Transmitter Power Output Levels

5 W

Battery Options

AA alkaline batteries, NiCad battery, and NiCad intrinsically safe battery

Battery Recharging Options

Six unit charger adapter (regular and rapid rate), regular rate single unit desk charger, 220 V regular and rapid rate single unit desk charger, rapid rate single unit with pre-conditioning discharge features, and dc vehicular charger adapter (rapid and regular rate)

Physical Parameters

Size

2.3 in x 6.1 in x 1.6 in

Weight

20 oz with antenna and belt hook

Power Requirements

7.5 V dc

External Power

No

Available Accessories

Speaker-Microphones

Earphone kit, palm microphone with earphone, mini lapel microphone with earphone, and heavy duty noise reduction behind the headset with noise canceling boom microphone

Carrying Cases

Heavy duty leather carrying case, cordura nylon carrying case, and rubber protective case

Battery Eliminators

Not specified

Vehicle Adapters

No

Logistical Parameters

Programming

Dealer/User (authorized technician)

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Die-cast chassis, weather-sealed universal connector and battery contacts use spring action gold-alloy elements for excellent contact, conductivity and anti-corrosive properties

Environmental Conditions

-22 °F to 140 °F

Unit Cost

\$800

Battery Cycle Life

10 h with 5/5/90 cycle

Rapid Charge Battery Cycle Life

Six unit rapid rate charger, rapid rate single unit desk charger, 220 V rapid rate single unit desk charger, rapid rate single unit battery charger with preconditioning discharge features, and rapid rate dc vehicular charger adapter

Maintenance Cost

Not specified

Interface Capability

Not specified

Special Requirements

Operator Skills Required

Experienced

Operator Training Requirements

Experienced

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

Not specified

Support Equipment

Batteries and chargers, carrying accessories, digital radio camera, microphones and speakers, and service related accessories

Warranty

2 yr

Mil Spec/Mil-Std Ratings

Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

Intrinsically Safe

Yes

General

Name

ID# 78

Kenwood UHF Fm Transceivers; TK-390



Model Number(s)

TK-390

Technology

Portable, conventional

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

Yes

Availability

Available

Frequency Range

450 MHz to 490 MHz, 470 MHz to 512 MHz,
403 MHz to 430 MHz

Number of Personnel Supported by System

Multiple

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Kenwood

Operational Parameters

Number of Channels

160 channels

Transmitter Power Output Levels

4 W

Battery Options

AA alkaline batteries, NiCad battery, and NiCad intrinsically safe battery

Battery Recharging Options

Six unit charger adapter (regular and rapid rate), regular rate single unit desk charger, 220 V regular and rapid rate single unit desk charger, rapid rate single unit with pre-conditioning discharge features, and dc vehicular charger adapter (rapid and regular rate)

Physical Parameters

Size

2.3 in x 6.1 in x 1.6 in

Weight

20 oz with antenna and belt hook

Power Requirements

7.5 V dc

External Power

No

Available Accessories

Speaker-Microphones

Earphone kit, palm microphone with earphone, mini lapel microphone with earphone, and heavy duty noise reduction behind the headset with noise canceling boom microphone

Carrying Cases

Heavy duty leather carrying case, cordura nylon carrying case, and rubber protective case

Battery Eliminators

Not specified

Vehicle Adapters

Not specified

Logistical Parameters

Programming

Dealer/User (authorized technician)

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Die-cast chassis, weather-sealed universal connector and battery contacts use spring action gold-alloy elements for excellent contact, conductivity and anti-corrosive properties

Environmental Conditions

-22 °F to 140 °F

Unit Cost

\$850

Battery Cycle Life

10 h with 5/5/90 cycle

Rapid Charge Battery Cycle Life

Six unit rapid rate charger, rapid rate single unit desk charger, 220 V rapid rate single unit desk charger, rapid rate single unit battery charger with preconditioning discharge features, and rapid rate dc vehicular charger adapter

Maintenance Cost

Not specified

Interface Capability

Not specified

Special Requirements

Operator Skills Required

Experienced

Operator Training Requirements

Experienced

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

Not specified

Support Equipment

Batteries and chargers, carrying accessories, digital radio camera, microphones and speakers, and service related accessories

Warranty

2 yr

Mil Spec/Mil-Std Ratings

Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

Intrinsically Safe

Yes

General

Name

Kenwood Trunked Mobile Radio; TK-980 NSPAC

ID# 79



Model Number(s)

TK-980 NSPAC

Technology

Mobile, trunked

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

Encryption/scrambler control

Availability

Available

Frequency Range

800 MHz

Number of Personnel Supported by System

Multiple

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Kenwood

Operational Parameters

Number of Channels

Trunked: 32 systems
Conventional: 250 channels

Transmitter Power Output Levels

15 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

5.5 in x 1.5 in x 5.7 in

Weight

2.1 lb

Power Requirements

13.6 V dc

External Power

Not applicable

Available Accessories

Speaker-Microphones

Not applicable

Carrying Cases

Not applicable

Battery Eliminators

Not applicable

Vehicle Adapters	Not applicable
<u>Logistical Parameters</u>	
Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Rugged use
Environmental Conditions	-22 °F to 140 °F
Unit Cost	\$634
Battery Cycle Life	Not applicable
Rapid Charge Battery Cycle Life	Not applicable
Maintenance Cost	Not specified
Interface Capability	Not specified
<u>Special Requirements</u>	
Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	Not specified
Support Equipment	Control head cables, line filter, key lock adapter, control station mounting case for power supply, mobile mounting bracket, control conversion kit, microphones, keypad, dc power supply, 220 V dc power supply, mobile programming interface cable, and programming software disk
Warranty	2 yr
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	No

General

Name

Kenwood Synthesized FM Portable Radio/Trunked System; TK-280

ID# 80



Model Number(s)

TK-280

Technology

Portable, conventional and trunked

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

Encryption control provides secure voice communications. An internal port permits addition of optional modules to provide voice scrambling from low-level inversion to high-level encryption types.

Availability

Available

Frequency Range

146 MHz to 174 MHz
136 MHz to 162 MHz

Number of Personnel Supported by System

Multiple

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Kenwood

Operational Parameters

Number of Channels

250 channels (conventional mode)
600 channels (trunked mode)

Transmitter Power Output Levels

Hi: 5 W; low: 1 W

Battery Options

1100 mAh/8 h, 7.2 V dc NiCad battery, 1500 mAh/10 h, 7.2 V dc NiCad battery, intrinsically safe NiCad battery, and AA alkaline batteries

Battery Recharging Options

Six unit charger adapter, regular rate single unit desk charger, 220 V regular and rapid single unit desk charger, rapid and regular dc vehicular charger adapter, and rapid rate single unit with preconditioning discharge features

Physical Parameters

Size

2.3 in x 5.3 in x 1.3 in

Weight	16 oz
Power Requirements	7.5 V dc
External Power	No
<u>Available Accessories</u>	
Speaker-Microphones	Earphone kit, Mil Spec noise canceling speaker microphone, 2-wire palm microphone with earphone, lapel microphone with earphone, and single muff headset with boom microphone
Carrying Cases	Heavy duty leather carrying case, cordura nylon carrying case, water resistant bag, and rubber protective case
Battery Eliminators	Not specified
Vehicle Adapters	No
<u>Logistical Parameters</u>	
Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Integrated elements such as the keypad membrane, gasket seals and the polypropylene speaker help prevent moisture penetration. Water resistant in wet weather.
Environmental Conditions	-22 °F to 140 °F
Unit Cost	\$520
Battery Cycle Life	At least 8 h with 5/5/90 cycle
Rapid Charge Battery Cycle Life	Six unit charger adapter rapid rate, rapid rate single unit desk charger, 220 V rapid rate single unit desk charger, rapid rate single unit with preconditioning discharge features, and rapid rate dc vehicular charger adapter
Maintenance Cost	Not specified
Interface Capability	Not specified
<u>Special Requirements</u>	
Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	Not specified
Support Equipment	Microphone and speakers, service related accessories, antennas, batteries and chargers, carrying accessories, and digital radio camera
Warranty	2 yr
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	Yes

General

Name

Kenwood Synthesized FM Portable Radio/Trunked System; TK-380

ID# 81



Model Number(s)

TK-380

Technology

Portable, conventional and trunked

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

Encryption control provides secure voice communications. An internal port permits addition of optional modules to provide voice scrambling from low-level inversion to high-level encryption types.

Availability

Available

Frequency Range

403 MHz to 430 MHz
450 MHz to 490 MHz
470 MHz to 512 MHz

Number of Personnel Supported by System

Multiple

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Kenwood

Operational Parameters

Number of Channels

250 channels (conventional mode)
600 channels (trunked mode)

Transmitter Power Output Levels

Hi: 4 W; low: 1 W

Battery Options

1100 mAh/8 h, 7.2 V dc NiCad battery, 1500 mAh/10 h, 7.2 V dc NiCad battery, intrinsically safe NiCad battery, and AA alkaline batteries

Battery Recharging Options

Six unit charger adapter, regular rate single unit desk charger, 220 V regular and rapid single unit desk charger, rapid and regular dc vehicular charger adapter, and rapid rate single unit with preconditioning discharge features

Physical Parameters

Size

2.3 in x 5.3 in x 1.3 in

Weight	16 oz
Power Requirements	7.5 V dc
External Power	No
<u>Available Accessories</u>	
Speaker-Microphones	Earphone kit, Mil Spec noise canceling speaker microphone, 2-wire palm microphone with earphone, lapel microphone with earphone, and single muff headset with boom microphone
Carrying Cases	Heavy duty leather carrying case, cordura nylon carrying case, water resistant bag, and rubber protective case
Battery Eliminators	Not specified
Vehicle Adapters	No
<u>Logistical Parameters</u>	
Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Integrated elements such as the keypad membrane, gasket seals and the polypropylene speaker help prevent moisture penetration. Water resistant in wet weather.
Environmental Conditions	-22 °F to 140 °F
Unit Cost	\$570
Battery Cycle Life	At least 8 h with 5/5/90 cycle
Rapid Charge Battery Cycle Life	Six unit charger adapter rapid rate, rapid rate single unit desk charger, 220 V rapid rate single unit desk charger, rapid rate single unit with preconditioning discharge features, and rapid rate dc vehicular charger adapter
Maintenance Cost	Not specified
Interface Capability	Not specified
<u>Special Requirements</u>	
Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	Not specified
Support Equipment	Microphone and speakers, service related accessories, antennas, batteries and chargers, carrying accessories, and digital radio camera
Warranty	2 yr
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	Yes

General

Name

Kenwood 800/900 MHz FM Transceiver; TK-480 and TK-480 NPSPAC

ID# 82



Model Number(s)

TK-480 and TK-480 NPSPAC

Technology

Portable, trunked system

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

Encryption control for security. An internal port permits addition of optional modules to provide voice scrambling from low-level inversion to high-level encryption types.

Availability

Available

Frequency Range

851 MHz to 870 MHz
806 MHz to 825 MHz

Number of Personnel Supported by System

Multiple

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Kenwood

Operational Parameters

Number of Channels

Systems: 32
Groups: 250 per system
Channels: 486 per system

Transmitter Power Output Levels

1 W to 2.5 W

Battery Options

1100 mAh/8 h NiCad battery; 1500 mAh/10 h NiCad battery, and intrinsically safe NiCad battery

Battery Recharging Options

Six unit charger adapter (regular and rapid rate), regular rate single unit desk charger, 220 V regular and rapid rate single unit desk charger, rapid rate single unit with pre-conditioning discharge features, and dc vehicular charger adapter (rapid and regular rate)

Physical Parameters

Size

2.3 in x 5.3 in x 1.3 in

Weight	16 oz
Power Requirements	7.5 V dc
External Power	No
<u>Available Accessories</u>	
Speaker-Microphones	Earphone kit, Mil Spec noise canceling speaker microphone, palm microphone with earphone, mini lapel microphone with earphone, and heavy duty noise reduction behind the headset with noise canceling boom microphone
Carrying Cases	Heavy duty leather carrying case, cordura nylon carrying case, water resistant bag, and rubber protective case
Battery Eliminators	Not specified
Vehicle Adapters	Not specified
<u>Logistical Parameters</u>	
Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Die-cast chassis, weather-sealed universal connector and battery contacts use spring action gold-alloy elements for excellent contact, conductivity and anti-corrosive properties. Polyvinyl keypad membrane and speaker cone prevent moisture penetration.
Environmental Conditions	-22 °F to 140 °F
Unit Cost	\$640
Battery Cycle Life	At least 8 h with 5/5/90 cycle
Rapid Charge Battery Cycle Life	Six unit rapid rate charger, rapid rate single unit desk charger, 220 V rapid rate single unit desk charger, rapid rate single unit battery charger with preconditioning discharge features, and rapid rate dc vehicular charger adapter
Maintenance Cost	Not specified
Interface Capability	Digital ANI Modules by Cimarron Technologies
<u>Special Requirements</u>	
Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	Not specified
Support Equipment	Batteries and chargers, carrying accessories, digital radio camera, microphones and speakers, and service related accessories
Warranty	2 yr
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	Yes

General

Name

Kenwood 800/900 MHz FM Transceiver; TK-481

ID# 83



Model Number(s)

TK-481

Technology

Portable, trunked system

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

Secure Communication Capability

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)
Encryption control for security. An internal port permits addition of optional modules to provide voice scrambling from low-level inversion to high-level encryption types.

Availability

Available

Frequency Range

896 MHz to 902 MHz TX
935 MHz to 941 MHz RX

Number of Personnel Supported by System

Multiple

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Kenwood

Operational Parameters

Number of Channels

Systems: 32
Groups: 250 per system
Channels: 486 per system

Transmitter Power Output Levels

1 W to 2.5 W

Battery Options

1100 mAh/8 h NiCad battery; 1500 mAh/10 h NiCad battery, and intrinsically safe NiCad battery

Battery Recharging Options

Six unit charger adapter (regular and rapid rate), regular rate single unit desk charger, 220 V regular and rapid rate single unit desk charger, rapid rate single unit with pre-conditioning discharge features, and dc vehicular charger adapter (rapid and regular rate)

Physical Parameters

Size

2.3 in x 5.3 in x 1.3 in

Weight	16 oz
Power Requirements	7.5 V dc
External Power	No
<u>Available Accessories</u>	
Speaker-Microphones	Earphone kit, Mil Spec noise canceling speaker microphone, palm microphone with earphone, mini lapel microphone with earphone, and heavy duty noise reduction behind the headset with noise canceling boom microphone
Carrying Cases	Heavy duty leather carrying case, cordura nylon carrying case, water resistant bag, and rubber protective case
Battery Eliminators	Not specified
Vehicle Adapters	No
<u>Logistical Parameters</u>	
Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Die-cast chassis, weather-sealed universal connector and battery contacts use spring action gold-alloy elements for excellent contact, conductivity and anti-corrosive properties. Polyvinyl keypad membrane and speaker cone prevent moisture penetration.
Environmental Conditions	-22 °F to 140 °F
Unit Cost	\$640
Battery Cycle Life	At least 8 h with 5/5/90 cycle
Rapid Charge Battery Cycle Life	Six unit rapid rate charger, rapid rate single unit desk charger, 220 V rapid rate single unit desk charger, rapid rate single unit battery charger with preconditioning discharge features, and rapid rate dc vehicular charger adapter
Maintenance Cost	Not specified
Interface Capability	Digital ANI Modules by Cimarron Technologies
<u>Special Requirements</u>	
Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	Not specified
Support Equipment	Batteries and chargers, carrying accessories, digital radio camera, microphones and speakers, and service related accessories
Warranty	2 yr
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	Optional

General

Name

***Kenwood Trunked Portable Radios; TK-930HDK2
NSPAC***

ID# 84

Picture Not Available

Model Number(s)

TK-930HDK2 NSPAC

Technology

Portable, trunked system

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

Yes

Availability

Available

Frequency Range

800 MHz

**Number of Personnel Supported by
System**

Multiple

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Kenwood

Operational Parameters

Number of Channels

LTR: 10 systems/200 trunked, 10 groups

Transmitter Power Output Levels

15 W to 35 W

Battery Options

Not applicable

Battery Recharging Options

None

Physical Parameters

Size

5.9 in x 2 in x 8.7 in

Weight

3.5 lb

Power Requirements

13.6 V dc

External Power

Yes

Available Accessories

Speaker-Microphones

Yes

Carrying Cases

Not applicable

Battery Eliminators

No

Vehicle Adapters

Yes

Logistical Parameters

Programming	Dealer/User (authorized technician) programmable - PC friendly
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Standard use
Environmental Conditions	-22 °F to 140 °F
Unit Cost	\$915
Battery Cycle Life	Not applicable
Rapid Charge Battery Cycle Life	Not applicable
Maintenance Cost	Not specified
Interface Capability	Not specified

Special Requirements

Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	Not specified
Support Equipment	Available
Warranty	2 yr
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	No

General

Name

Kenwood Trunked Compact Mobile Radio; TK-980

ID# 85



Model Number(s)

TK-980

Technology

Mobile, conventional and trunked

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

Encryption control: An internal port permits addition of optional modules for user-defined voice scrambling from low-level inversion to high-level encryption types. The radio programming also provides both automatic and manual control for clear and coded modes.

Availability

Available

Frequency Range

Type 1 851 MHz to 870 MHz RX
Type 2 806 MHz to 825 MHz TX
Type 3 851-870 MHz talk around

Number of Personnel Supported by System

Multiple

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Kenwood

Operational Parameters

Number of Channels

Systems: maximum 32 channels
Groups: maximum 250 channels
Channels: maximum 600

Transmitter Power Output Levels

15 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

5.5 in x 1.6 in x 5.7 in

Weight

2.1 lb

Power Requirements

13.6 V dc \pm 15 %

External Power	Not applicable
<u>Available Accessories</u>	
Speaker-Microphones	Not applicable
Carrying Cases	Not applicable
Battery Eliminators	Not applicable
Vehicle Adapters	Not applicable
<u>Logistical Parameters</u>	
Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Aluminum die-cast chassis gives strength to the unit and provides for natural heat dissipation. Interlocking metal covers and seals lockout moist and dust.
Environmental Conditions	-22 °F to 140 °F
Unit Cost	\$550
Battery Cycle Life	Not applicable
Rapid Charge Battery Cycle Life	Not applicable
Maintenance Cost	Not specified
Interface Capability	Not specified
<u>Special Requirements</u>	
Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	FCC, FCC Compliance, IC Certification
Support Equipment	Microphones (desktop, mobile, mobile with keypad), ignition sense cable, accessory connector cable, dc power supply, external speakers, line noise filter, mounting case, key lock adapter, and PA/HA unit
Warranty	2 yr
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	No

General

Name

Kenwood Trunked Compact Mobile Radio; TK-81

ID# 86



Model Number(s)

TK-981

Technology

Mobile, conventional and trunked

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

Encryption control: An internal port permits addition of optional modules for user-defined voice scrambling from low-level inversion to high-level encryption types. The radio programming also provides both automatic and manual control for clear and coded modes.

Availability

Available

Frequency Range

Type 1 935 MHz to 941 MHz RX
Type 2 896 MHz to 902 MHz TX
Type 3 935 MHz to 941 MHz talk around

Number of Personnel Supported by System

Multiple

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Kenwood

Operational Parameters

Number of Channels

Systems: maximum 32 channels
Groups: maximum 250 channels
Channels: maximum 600

Transmitter Power Output Levels

15 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

5.5 in x 1.6 in x 5.7 in

Weight

2.1 lb

Power Requirements

13.6 V dc \pm 15 %

External Power	Not applicable
<u>Available Accessories</u>	
Speaker-Microphones	Not applicable
Carrying Cases	Not applicable
Battery Eliminators	Not applicable
Vehicle Adapters	Not applicable
<u>Logistical Parameters</u>	
Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Aluminum die-cast chassis gives strength to the unit and provides for natural heat dissipation. Interlocking metal covers and seals lockout moist and dust.
Environmental Conditions	-22 °F to 140 °F
Unit Cost	\$550
Battery Cycle Life	Not applicable
Rapid Charge Battery Cycle Life	Not applicable
Maintenance Cost	Not specified
Interface Capability	Not specified
<u>Special Requirements</u>	
Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	FCC, FCC Compliance, IC Certification
Support Equipment	Microphones (desktop, mobile, mobile with keypad), ignition sense cable, accessory connector cable, dc power supply, external speakers, line noise filter, mounting case, key lock adapter, and PA/HA unit
Warranty	2 yr
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	No

General

Name

ID# 87

Kenwood VHF Base Transceiver; TKB-720



Model Number(s)

TKB-720

Technology

Base radio, conventional

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

No

Availability

Available

Frequency Range

150 MHz to 174 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Kenwood

Operational Parameters

Number of Channels

9 to 16 channels

Transmitter Power Output Levels

20 W to 50 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

4.7 in x 13 in x 15.1 in

Weight

27.6 lb

Power Requirements

120 V ac 50 Hz/60 Hz

External Power

Yes

Available Accessories

Speaker-Microphones

Yes

Carrying Cases

Not applicable

Battery Eliminators

Not applicable

Vehicle Adapters	Not applicable
<u>Logistical Parameters</u>	
Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Standard use
Environmental Conditions	-22 °F to 140 °F
Unit Cost	Not specified
Battery Cycle Life	Not applicable
Rapid Charge Battery Cycle Life	Not applicable
Maintenance Cost	Not specified
Interface Capability	Not specified
<u>Special Requirements</u>	
Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	Not specified
Support Equipment	Available
Warranty	2 yr
Mil Spec/Mil-Std Ratings	No
Intrinsically Safe	No

General

Name

Kenwood VHF/UHF Repeater; TKR-720

ID# 88

Picture Not Available

Model Number(s)

TKR-720

Technology

Repeater, conventional

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

No

Availability

Available

Frequency Range

150 MHz to 174 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Not applicable

Current User(s)

Not specified

Source

Kenwood

Operational Parameters

Number of Channels

1 channel

Transmitter Power Output Levels

15 W to 50 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

4.8 in x 13 in x 15 in

Weight

28.7 lb

Power Requirements

120 V ac 50 Hz/60 Hz

External Power

Yes

Available Accessories

Speaker-Microphones

Yes

Carrying Cases

Not applicable

Battery Eliminators

Not applicable

Vehicle Adapters

Not applicable

Logistical Parameters

Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Standard use
Environmental Conditions	-22 °F to 140 °F
Unit Cost	Not specified
Battery Cycle Life	Not applicable
Rapid Charge Battery Cycle Life	Not applicable
Maintenance Cost	Not specified
Interface Capability	Not specified

Special Requirements

Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	Not specified
Support Equipment	Available
Warranty	2 yr
Mil Spec/Mil-Std Ratings	Yes
Intrinsically Safe	No

General

Name

Kenwood UHF Repeater; TKR-820

ID# 89

Picture Not Available

Model Number(s)

TKR-820

Technology

Repeater, conventional desktop repeater

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

No

Availability

Available

Frequency Range

406 MHz to 512 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Not applicable

Current User(s)

Not specified

Source

Kenwood

Operational Parameters

Number of Channels

1 channel

Transmitter Power Output Levels

2 W to 20 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

48 in x 13 in x 15 in

Weight

28.7 lb

Power Requirements

120 V ac 50 Hz/60 Hz

External Power

Yes

Available Accessories

Speaker-Microphones

Yes

Carrying Cases

Not applicable

Battery Eliminators

Not applicable

Vehicle Adapters

Not applicable

Logistical Parameters

Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Not applicable
Environmental Conditions	-22 °F to 140 °F
Unit Cost	Not specified
Battery Cycle Life	Not applicable
Rapid Charge Battery Cycle Life	Not applicable
Maintenance Cost	Not specified
Interface Capability	Not specified

Special Requirements

Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	Not specified
Support Equipment	Available
Warranty	2 yr
Mil Spec/Mil-Std Ratings	Yes
Intrinsically Safe	No

General

Name

Motorola Astro Transceiver, Portable; Saber 1

ID# 90



Model Number(s)

Astro Saber 1

Technology

Portable, conventional and trunked

Manufacturer

Motorola USA
1301 E. Algonquin Road
Schaumburg, Illinois 60196
800-247-2346 (Tel)

**Secure Communication Capability
Availability**

POC: Ron Zeberlein
410-712-6014 (Tel)

Yes

Available

Frequency Range

VHF: 136 MHz to 174
UHF: 403 MHz to 470, 450 MHz to 520 MHz
800: 806 MHz to 870 MHz

**Number of Personnel Supported by
System**

Multiple

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Motorola

Operational Parameters

Number of Channels

16 channels to 32 channels

Transmitter Power Output Levels

1 W to 5 W

Battery Options

1 NiCad 1000 mAh; 1 NiCad 1100 mAh; 4 NiCad 1800
mAh; 1 NiMH 1650 mAh; and 1 Lithium Ion

Battery Recharging Options

2 desktop, single unit standard charge rate chargers; 3
desktop, single unit rapid charge rate chargers; 2 multi
unit rapid rate chargers; 2 multi unit battery maintenance
systems; 2 multi unit battery optimizing systems; and 4
conditioning chargers

Physical Parameters

Size

5.2 in x 2.9 in x 1.2 in (without battery)

Weight

13 oz (without battery)

Power Requirements

7.5 V dc

External Power

Yes, with optional vehicular adapter

Available Accessories

Speaker-Microphones

4 standard models available; 5 ear worn speaker microphones available

Carrying Cases

6 leather carrying cases; 4 nylon carrying cases; 1 belt clips; universal chest pack; breakaway chest pack; and universal radio pack (worn around waist)

Battery Eliminators

No

Vehicle Adapters

Yes

Logistical Parameters

Programming

Dealer/User (authorized technician)

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Standard use

Environmental Conditions

-22 °F to 140 °F

Unit Cost

\$1.5K Manufacturer Suggested Retail Price (MSRP)
Contact dealer for discount pricing

Battery Cycle Life

Not specified

Rapid Charge Battery Cycle Life

Not applicable

Maintenance Cost

Not specified

Interface Capability

Digital capable

Special Requirements

Operator Skills Required

Average

Operator Training Requirements

Average

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

Not specified

Support Equipment

Available

Warranty

1 yr

Mil Spec/Mil-Std Ratings

Meets Mil Spec 810C, Mil Spec 810D, and
Mil Spec 810E

Intrinsically Safe

Yes

General

Name

Motorola Astro Transceiver, Portable; Saber 2

ID# 91



Model Number(s)

Astro Saber 2

Technology

Portable, conventional and trunked

Manufacturer

Motorola USA
1301 E. Algonquin Road
Schaumburg, Illinois 60196
800-247-2346 (Tel)

Secure Communication Capability

POC: Ron Zeberlein
410-712-6014 (Tel)

Availability

Yes

Frequency Range

Available

Number of Personnel Supported by System

VHF: 136 MHz to 174 MHz
UHF: 403 MHz to 470 MHz, 450 MHz to 520 MHz
800: 806 MHz to 870 MHz
Multiple

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Motorola

Operational Parameters

Number of Channels

255 channels

Transmitter Power Output Levels

1 W to 5 W

Battery Options

1 NiCad 1000 mAh; 1 NiCad 1100 mAh; 4 NiCad 1800 mAh; 1 NiMH 1650 mAh; and 1 Lithium Ion

Battery Recharging Options

2 desktop, single unit standard charge rate chargers; 3 desktop, single unit rapid charge rate chargers; 2 multi unit rapid rate chargers; 2 multi unit battery maintenance systems; 2 multi unit battery optimizing systems; and 4 conditioning chargers

Physical Parameters

Size

5.2 in x 2.9 in x 1.2 in (without battery)

Weight

12.8 oz (without battery)

Power Requirements

7.5 V dc

External Power

Yes, with optional vehicular adapter

Available Accessories

Speaker-Microphones

4 standard models available; 5 ear worn speaker microphones available

Carrying Cases

6 leather carrying cases; 4 nylon carrying cases; 1 belt clips; universal chest pack; breakaway chest pack; and universal radio pack (worn around waist)

Battery Eliminators

No

Vehicle Adapters

Yes

Logistical Parameters

Programming

Dealer/User (authorized technician)

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Standard use

Environmental Conditions

-22 °F to 140 °F

Unit Cost

\$1.8K MSRP

Contact dealer for discount pricing

Battery Cycle Life

Not specified

Rapid Charge Battery Cycle Life

Not applicable

Maintenance Cost

Not specified

Interface Capability

Digital capable

Special Requirements

Operator Skills Required

Average

Operator Training Requirements

Average

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

Not specified

Support Equipment

Available

Warranty

1 yr

Mil Spec/Mil-Std Ratings

Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

Intrinsically Safe

Yes

General

Name

Motorola Astro Transceiver, Portable; Saber 3

ID# 92



Model Number(s)

Saber 3

Technology

Portable, conventional and trunked

Manufacturer

Motorola USA
1301 E. Algonquin Road
Schaumburg, Illinois 60196
800-247-2346 (Tel)

Secure Communication Capability

Yes

Availability

Available

Frequency Range

VHF: 136 MHz to 174 MHz
UHF: 403 MHz to 470 MHz, 450 MHz to 520 MHz
800: 806 MHz to 870 MHz

Number of Personnel Supported by System

Multiple

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Motorola

Operational Parameters

Number of Channels

255 channels

Transmitter Power Output Levels

1 W to 5 W

Battery Options

1 NiCad 1000 mAh; 1 NiCad 1100 mAh; 4 NiCad 1800 mAh; 1 NiMH 1650 mAh; and 1 Lithium Ion

Battery Recharging Options

2 desktop, single unit standard charge rate chargers; 3 desktop, single unit rapid charge rate chargers; 2 multi unit rapid rate chargers; 2 multi unit battery maintenance systems; 2 multi unit battery optimizing systems; and 4 conditioning chargers

Physical Parameters

Size

5.2 in x 2.9 in x 1.2 in (without battery)

Weight

12.8 oz (without battery)

Power Requirements

7.5 V dc

External Power	Yes, with optional vehicular adapter
<u>Available Accessories</u>	
Speaker-Microphones	4 standard models available; 5 ear worn speaker microphones available
Carrying Cases	6 leather carrying cases; 4 nylon carrying cases; 1 belt clips; universal chest pack; breakaway chest pack; and universal radio pack (worn around waist)
Battery Eliminators	No
Vehicle Adapters	Yes
<u>Logistical Parameters</u>	
Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Standard use
Environmental Conditions	-22 °F to 140 °F
Unit Cost	\$2K MSRP Contact dealer for discount pricing
Battery Cycle Life	Not specified
Rapid Charge Battery Cycle Life	Not applicable
Maintenance Cost	Not specified
Interface Capability	Digital capable
<u>Special Requirements</u>	
Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	Not specified
Support Equipment	Available
Warranty	1 yr
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	Yes

General

Name

Motorola Astro Transceiver, Portable; XTS 3000 Model I

ID# 93



Model Number(s)

XTS 3000 Model I

Technology

Portable, conventional and trunked

Manufacturer

Motorola USA
1301 E. Algonquin Road
Schaumburg, Illinois 60196
800-247-2346 (Tel)

POC: Ron Zeberlein
410-712-6014 (Tel)

Secure Communication Capability

Yes

Availability

Available

Frequency Range

VHF: 136 MHz to 174 MHz
UHF: 403 MHz to 470, 450 MHz to 520 MHz
800: 806 MHz to 824 MHz, 851 MHz to 870 MHz

Number of Personnel Supported by System

Multiple

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Motorola

Operational Parameters

Number of Channels

16 to 48 channels

Transmitter Power Output Levels

1 W to 5 W

Battery Options

3 NiCad 1500 mAh; 2 NiMH 1650 & 1800 mAh; and 1 Lithium Ion 1500 mAh

Battery Recharging Options

6 desktop, single unit rapid charge rate chargers; 4 desktop, multi unit rapid charge rate chargers; 2 multi unit battery maintenance systems; 2 multi unit battery optimizing systems; and 2 conditioning chargers

Physical Parameters

Size

6.6 in x 2.4 in x 1.7 in (without battery)

Weight

14.4 oz (without battery)

Power Requirements

6 V dc to 9 V dc

External Power

No

Available Accessories

Speaker-Microphones

5 standard models available; 3 ear worn speaker microphones available

Carrying Cases

8 leather carrying cases; universal chest pack; and standard chest pack

Battery Eliminators

No

Vehicle Adapters

No

Logistical Parameters

Programming

Dealer/User (authorized technician)

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Designed for ruggedness; and weather sealed universal connector

Environmental Conditions

-22 °F to 140 °F

Unit Cost

\$1.7K MSRP, add \$250 for ruggedized version (see Item # 113) and contact dealer for discount pricing

Battery Cycle Life

Not specified

Rapid Charge Battery Cycle Life

Not applicable

Maintenance Cost

Not specified

Interface Capability

Digital capable

Special Requirements

Operator Skills Required

Average

Operator Training Requirements

Average

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

Not specified

Support Equipment

Available

Warranty

1 yr

Mil Spec/Mil-Std Ratings

Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

Intrinsically Safe

No

General

Name

Motorola Astro Transceiver, Portable; XTS 3000 Model 2

ID# 94



Model Number(s)

XTS 3000 Model II

Technology

Portable, conventional and trunked

Manufacturer

Motorola USA
1301 E. Algonquin Road
Schaumburg, Illinois 60196
800-247-2346 (Tel)

POC: Ron Zeberlein
410-712-6014 (Tel)

Secure Communication Capability

Yes

Availability

Available

Frequency Range

VHF: 136 MHz to 174 MHz
UHF: 403 MHz to 470 MHz, 450 MHz to 520 MHz
800: 806 MHz to 824 MHz, 851 MHz to 870 MHz

Number of Personnel Supported by System

Multiple

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Motorola

Operational Parameters

Number of Channels

255 channels

Transmitter Power Output Levels

1 W to 5 W

Battery Options

3 NiCad 1500 mAh; 2 NiMH 1650 & 1800 mAh; and 1 Lithium Ion 1500 mAh

Battery Recharging Options

6 desktop, single unit rapid charge rate chargers; 4 desktop, multi unit rapid charge rate chargers; 2 multi unit battery maintenance systems; 2 multi unit battery optimizing systems; and 2 conditioning chargers

Physical Parameters

Size

6.6 in x 2.4 in x 1.7 in (without battery)

Weight

14.4 oz (without battery)

Power Requirements

6 V dc to 9 V dc

External Power

No

Available Accessories

Speaker-Microphones

5 standard models available; 3 ear worn speaker microphones available

Carrying Cases

8 leather carrying cases; universal chest pack; and standard chest pack

Battery Eliminators

No

Vehicle Adapters

No

Logistical Parameters

Programming

Dealer/User (authorized technician)

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Designed for ruggedness; and weather sealed universal connector

Environmental Conditions

-22 °F to 140 °F

Unit Cost

\$2K MSRP, add \$250 for ruggedized version (see ID# 113), and contact dealer for discount pricing

Battery Cycle Life

Not specified

Rapid Charge Battery Cycle Life

Not applicable

Maintenance Cost

Not specified

Interface Capability

Digital capable

Special Requirements

Operator Skills Required

Average

Operator Training Requirements

Average

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

Not specified

Support Equipment

Available

Warranty

1 yr

Mil Spec/Mil-Std Ratings

Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

Intrinsically Safe

No

General

Name

Motorola Astro Transceiver, Portable; XTS 3000 Model 3

ID# 95



Model Number(s)

XTS 3000 Model III

Technology

Portable, conventional and trunked

Manufacturer

Motorola USA
1301 E. Algonquin Road
Schaumburg, Illinois 60196
800-247-2346 (Tel)

POC: Ron Zeberlein
410-712-6014 (Tel)

Secure Communication Capability

Yes

Availability

Available

Frequency Range

VHF: 136 MHz to 174 MHz
UHF: 403 MHz to 470 MHz, 450 MHz to 520 MHz
800: 806 MHz to 824 MHz, 851 MHz to 870 MHz

Number of Personnel Supported by System

Multiple

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Motorola

Operational Parameters

Number of Channels

255 channels

Transmitter Power Output Levels

1 W to 5 W

Battery Options

3 NiCad 1500 mAh; 2 NiMH 1650 & 1800 mAh; and 1 Lithium Ion 1500 mAh

Battery Recharging Options

6 desktop, single unit rapid charge rate chargers; 4 desktop, multi unit rapid charge rate chargers; 2 multi unit battery maintenance systems; 2 multi unit battery optimizing systems; and 2 conditioning chargers

Physical Parameters

Size

6.6 in x 2.4 in x 1.7 in (without battery)

Weight

14.4 oz (without battery)

Power Requirements

6 V dc to 9 V dc

External Power

No

Available Accessories

Speaker-Microphones

5 standard models available; 3 ear worn speaker microphones available

Carrying Cases

8 leather carrying cases; universal chest pack; and standard chest pack

Battery Eliminators

No

Vehicle Adapters

No

Logistical Parameters

Programming

Dealer/User (authorized technician)

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Designed for ruggedness; weather sealed universal connector

Environmental Conditions

-22 °F to 140 °F

Unit Cost

\$2.4K MSRP, add \$250 for ruggedized version (see ID# 113), and contact dealer for discount pricing

Battery Cycle Life

Not specified

Rapid Charge Battery Cycle Life

Not applicable

Maintenance Cost

Not specified

Interface Capability

Digital capable

Special Requirements

Operator Skills Required

Average

Operator Training Requirements

Average

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

Not specified

Support Equipment

Available

Warranty

1 yr

Mil Spec/Mil-Std Ratings

Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

Intrinsically Safe

No

General

Name

Motorola Astro Transceiver, Portable; XTS 3000R Series Models 1, 2, & 3

ID# 96



Model Number(s)

XTS 3000R Model 1, 2, or 3 (ruggedized versions of ID#s 96, 97, and 98)

Technology

Portable, conventional and trunked

Manufacturer

Motorola USA
1301 E. Algonquin Road
Schaumburg, Illinois 60196
800-247-2346 (Tel)

POC: Ron Zeberlein
410-712-6014 (Tel)

Secure Communication Capability

Yes

Availability

Available

Frequency Range

VHF: 136 MHz to 174 MHz
UHF: 403 MHz to 470 MHz, 450 MHz to 520 MHz
800: 806 MHz to 824 MHz, 851 MHz to 870 MHz

Number of Personnel Supported by System

Multiple

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Motorola

Operational Parameters

Number of Channels

Model I: 16/48 channels
Model II and Model III: 255 channels
1 W to 5 W

Transmitter Power Output Levels

Battery Options

3 NiCad 1500 mAh; 2 NiMH 1650 & 1800 mAh;
and 1 Lithium Ion 1500 mAh

Battery Recharging Options

6 desktop, single unit rapid charge rate chargers; 4 desktop, multi unit rapid charge rate chargers; 2 multi unit battery maintenance systems; 2 multi unit battery optimizing systems; and 2 conditioning chargers

Physical Parameters

Size

6.6 in x 2.4 in x 1.7 in (without battery)

Weight

14.4 oz (without battery)

Power Requirements

6 V dc to 9 V dc

External Power	No
<u>Available Accessories</u>	
Speaker-Microphones	5 standard models available; 3 ear worn speaker microphones available
Carrying Cases	8 leather carrying cases; universal chest pack; and standard chest pack
Battery Eliminators	No
Vehicle Adapters	No
<u>Logistical Parameters</u>	
Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Rugged, submersible (withstand up to 4 h under 6 ft of water-fresh or salt)
Environmental Conditions	-22 °F to 140 °F
Unit Cost	Add \$250 to ID#'s 97, 98, 99 for ruggedized versions and contact dealer for discount pricing
Battery Cycle Life	Not specified
Rapid Charge Battery Cycle Life	Not applicable
Maintenance Cost	Not specified
Interface Capability	Digital capable
<u>Special Requirements</u>	
Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	Not specified
Support Equipment	Available
Warranty	1 yr
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	No

General

Name

Motorola Dual Mode Mobile; MCS 2000 Mobile Model I

ID# 97



Model Number(s)

MCS 2000 Mobile Model 1

Technology

Mobile conventional and trunked radio

Manufacturer

Motorola USA
1301 E. Algonquin Road
Schaumburg, Illinois 60196
800-247-2346 (Tel)

POC: Ron Zeberlein
410-712-6014 (Tel)

Secure Communication Capability

Yes

Availability

Available

Frequency Range

VHF: 136 MHz to 174 MHz
UHF: 403 MHz to 512 MHz
800/900: 806 MHz to 870 MHz to 896 MHz to 941 MHz
Multiple

Number of Personnel Supported by System

Not specified

Geographic Coverage

Not specified

Current User(s)

Source

Motorola

Operational Parameters

Number of Channels

48 with optional 150 channels

Transmitter Power Output Levels

1 W to 35 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

1.7 in x 6.6 in x 6.3 in

Weight

3.9 lb

Power Requirements

12 V dc

External Power

Not applicable

Available Accessories

Speaker-Microphones

Not applicable

Carrying Cases

Not applicable

Battery Eliminators Not applicable
Vehicle Adapters Not applicable

Logistical Parameters

Programming Dealer/User (authorized technician)
Repairs Dealer
Decontamination Not specified
Durability/Ruggedness Standard use
Environmental Conditions -22 °F to 140 °F
Unit Cost \$958 MSRP and contact dealer for discount pricing
Battery Cycle Life Not specified
Rapid Charge Battery Cycle Life Not specified
Maintenance Cost Not specified
Interface Capability No

Special Requirements

Operator Skills Required Average
Operator Training Requirements Average
Training Available Yes
Manuals Available Yes
Applicable Regulations Not specified
Support Equipment Available
Warranty 1 yr
Mil Spec/Mil-Std Ratings Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe Not specified

General

Name

Motorola Dual Mode Mobile; MCS 2000 Mobile Model II

ID# 98



Model Number(s)

MCS 2000 Mobile Model 2

Technology

Mobile, conventional and trunked radio

Manufacturer

Motorola USA
1301 E. Algonquin Road
Schaumburg, Illinois 60196
800-247-2346 (Tel)

POC: Ron Zeberlein
410-712-6014 (Tel)

Secure Communication Capability

Yes

Availability

Available

Frequency Range

VHF: 136 MHz to 174 MHz
UHF: 403 MHz to 512 MHz
800/900 MHz: 806 MHz to 870 MHz to 896 MHz to 941 MHz

Number of Personnel Supported by System

Multiple

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Motorola

Operational Parameters

Number of Channels

160 with optional 250 channels

Transmitter Power Output Levels

1 W to 35 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

1.7 in x 6.6 in x 6.3 in

Weight

3.9 lb

Power Requirements

12 V dc

External Power

Not applicable

Available Accessories

Speaker-Microphones

Not applicable

Carrying Cases	Not applicable
Battery Eliminators	Not applicable
Vehicle Adapters	Not applicable

Logistical Parameters

Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Standard use
Environmental Conditions	-22 °F to 140 °F
Unit Cost	\$1.3K MSRP and contact dealer for discount pricing
Battery Cycle Life	Not specified
Rapid Charge Battery Cycle Life	Not specified
Maintenance Cost	Not specified
Interface Capability	Not specified

Special Requirements

Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	Not specified
Support Equipment	Available
Warranty	1 yr
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	Not specified

General

Name

Motorola Dual Mode Mobile; MCS 2000 Mobile Model III

ID# 99



Model Number(s)

MCS 2000 Mobile Model 3

Technology

Mobile, conventional and trunked radio

Manufacturer

Motorola USA
1301 E. Algonquin Road
Schaumburg, Illinois 60196
800-247-2346 (Tel)

POC: Ron Zeberlein
410-712-6014 (Tel)

Secure Communication Capability

Yes

Availability

Available

Frequency Range

VHF: 136 MHz to 174 MHz
UHF: 403 MHz to 512 MHz
800/900MHz: 806 MHz to 870 MHz to 896 MHz to 941 MHz

Number of Personnel Supported by System

Multiple

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Motorola

Operational Parameters

Number of Channels

160 with optional 250 channels

Transmitter Power Output Levels

1 W to 35 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

2.3 in x 6.6 in x 11.7 in

Weight

5.5 lb

Power Requirements

12 V dc

External Power

Not applicable

Available Accessories

Speaker-Microphones	Not applicable
Carrying Cases	Not applicable
Battery Eliminators	Not applicable
Vehicle Adapters	Not applicable
<u>Logistical Parameters</u>	
Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Standard use
Environmental Conditions	-22 °F to 140 °F
Unit Cost	\$1.6K MSRP and contact dealer for discount pricing
Battery Cycle Life	Not specified
Rapid Charge Battery Cycle Life	Not specified
Maintenance Cost	Not specified
Interface Capability	Not specified
<u>Special Requirements</u>	
Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	Not specified
Support Equipment	Available
Warranty	1 yr
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	Not specified

General

Name

Motorola Transceiver; Astro Digital Spectra W3

ID# 100



Model Number(s)

Astro Digital Spectra W3

Technology

Mobile, conventional and trunked radio

Manufacturer

Motorola USA
1301 E. Algonquin Road
Schaumburg, Illinois 60196
800-247-2346 (Tel)

POC: Ron Zeberlein
410-712-6014 (Tel)

Secure Communication Capability

Yes

Availability

Available

Frequency Range

VHF: 136 MHz to 174 MHz
UHF: 403 MHz to 433 MHz, 438 MHz to 470 MHz,
450 MHz to 482 MHz, 482 MHz to 512 MHz
800 MHz: 806 MHz to 870 MHz

Number of Personnel Supported by System

Multiple

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Motorola

Operational Parameters

Number of Channels

255 channels

Transmitter Power Output Levels

10 W to 110 W (35 W on 800 MHz)

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

2 in x 7.1 in x 2.2 in

Weight

6.1 lb

Power Requirements

12 V dc

External Power

Not applicable

Available Accessories

Speaker-Microphones

Not applicable

Carrying Cases	Not applicable
Battery Eliminators	Not applicable
Vehicle Adapters	Not applicable

Logistical Parameters

Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Standard use
Environmental Conditions	-22 °F to 140 °F
Unit Cost	\$3K MSRP and contact dealer for discount pricing
Battery Cycle Life	Not specified
Rapid Charge Battery Cycle Life	Not specified
Maintenance Cost	Not specified
Interface Capability	Digital capable

Special Requirements

Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	Not specified
Support Equipment	Available
Warranty	1 yr
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	Not specified